



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 22, 2018

Joanna Holcombe
Regulatory Specialist
Applied Biochemist, An Arch Chemicals, Inc. Business
1200 Bluegrass Lakes Parkway
Alpharetta, GA 30004

Subject: Label Amendment – Correction of Typo in Environmental Hazards Section
Product Name: Cutrine Plus Granular Algaecide
EPA Registration Number: 8959-12
Application Date: May 24, 2018
Decision Number: 541826

Dear Ms. Holcombe:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Ben Chambliss by phone at (703) 308-8174, or via email at chambliss.ben@epa.gov.

Sincerely,

A handwritten signature in red ink that reads "Jacqueline Hardy". The signature is written in a cursive style and is centered above the typed name.

Jacqueline Hardy, Product Manager 34
Regulatory Management Branch 2
Antimicrobials Division (7510P)

Enclosure: stamped labeling

Note to reviewer:

[Items in brackets [AAA] are optional and may/may not be included on final label]

{Items in braces {AAA} are for information purposes and will not appear on final label}

CUTRINE PLUS GRANULAR ALGAECIDE

[FOR USE IN: LAKES; POTABLE WATER RESERVOIRS; PONDS; FISH HATCHERIES]
[Especially for Control of Chara, Nitella, Hydrilla & bottom growths of filamentous algae]

Active Ingredient:

Copper ethanolamine complex (CAS# 14215-52-2)*.....10.7%

Other Ingredients.....89.3%

TOTAL:100.0%

*Metallic copper equivalent, 3.7%. Contains 2.2 lbs. of elemental copper per 60 lbs.

KEEP OUT OF REACH OF CHILDREN

[MANTÉNGASE FUERA DEL ALCANCE DE LOS NIÑOS]

DANGER

[/]

[PELIGRO]

ACCEPTED

08/22/2018

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 8959-12

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand label, find someone to explain it to you in detail.)

{Note to reviewer: Although this product has a "Danger" signal word, as per the EPA label review manual "The Agency may permit reasonable variations in the placement of the First Aid statement as long as the reference statement, "See First Aid (or Statement of Practical Treatment) on (identify appropriate panel)" appears on the front panel." If the First Aid Statements are placed on the front panel of the final graphic label, the statement below will only reference Precautionary Statements.}

[See [side][back][right][left] [panel][label] for Precautionary Statements [and First Aid].]

[[See] Directions for Use and Storage and Disposal on [side][back][right][left] [panel]]

MANUFACTURED FOR:

ab applied biochemists

1200 Bluegrass Lakes Parkway

Alpharetta, GA 30004

[(insert phone number)]

www.appliedbiochemists.com

EPA. REG. NO. 8959-12

EPA. EST. Xxxxx-yy-zz

[Superscript Used in Lot Number]

PAT. NO. 3,930,834

NET [WEIGHT][WT.]: _____

Citrine Plus Granular Algaecide

EPA Reg. No. 8959-12

EPA Draft Label 2018-05-24

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive. Causes irreversible eye damage and skin burns. May be fatal if absorbed through the skin. Harmful if swallowed or inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing dust.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators, and other handlers must wear the following:

- [•] Coveralls over long sleeved shirt and long pants
- [•] Protective eyewear (goggles, face shield)
- [•] Chemical resistant footwear
- [•] Socks
- [•] Chemical resistant gloves

When mixing and loading wear a chemical resistant apron. For overhead exposure wear chemical resistant headgear. When cleaning equipment, wear a chemical resistant apron.

Users must wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash outside of gloves before removing.

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

IN CASE OF EMERGENCY CALL: 1-800-654-6911

For help with a spill, leak, fire or exposure involving this product call CHEMTREC 1-800-424-9300.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than 1/2 of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Consult with the State or local agency with primary responsibility for regulating pesticides before applying to public waters to determine if a permit is required.

This product may be toxic to trout and other species of fish. Fish toxicity is dependent upon the hardness of water. Do not use in water containing trout if the carbonate hardness of the water does not exceed 50 ppm. **Do not use in waters containing Koi and hybrid goldfish. Not intended for use in small volume, garden pond systems.**

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Certain water conditions including low pH (≤ 6.5), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e. alkalinity less than 50 mg/L), increases the potential acute toxicity to non-target aquatic organisms.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label and use strictly in accordance with precautionary statements and directions.

For applications in waters destined for use as drinking water, those must receive additional and separate potable water treatment. Do not apply more than 1.0 ppm as metallic copper in these waters.

GENERAL PRECAUTIONS AND RESTRICTIONS

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Do not enter or allow others to enter until application of product has been completed.

A. LARGE AREA TREATMENT (over 5,000 sq. ft.)

1. Identify form(s) of targeted bottom-growing algae (Chara / Nitella or Filamentous) or Hydrilla.
2. Estimate the height of targeted plant growth (in ft.) in the water column. This would be the distance from bottom to top of plants.
3. Calculate surface area (acres) of the treatment area (area of infestation) using the following formula:

$$\frac{\text{Length (ft.)} \times \text{Width (ft.)}}{43,560} = \text{Surface Acre(s)}$$

4. Refer to Table 1 to determine lbs. of [CUTRINE-PLUS GRANULAR [ALGAECIDE]][product name][this product] to apply per surface acre based upon type and height of targeted growth.

Table 1 Pounds of [CUTRINE-PLUS GRANULAR [ALGAECIDE]][product name][this product] to Apply per Acre			
Form of Algal Growth	Height of Plant Growth (feet)		
	1	2	3
Bottom Filamentous	20	40	60
Chara / Nitella	30	60	90
Hydrilla	70	140	210

5. Distribute [CUTRINE-PLUS GRANULAR [ALGAECIDE]][product name][this product] evenly over the water surface directly over the targeted vegetation, varying rates with the height of the vegetation in the water column. A dry fertilizer spreader may be used to ensure even distribution.

B. SMALL AREA (SPOT) TREATMENT (under 5,000 sq. ft.)

For treatment around small areas such as docks, rafts, water intakes, etc., apply product uniformly at the rate of 1.5 pounds (24 oz.) per 1,000 square feet. (In areas less than 1 ft. deep, reduce dosage by 2 oz. per inch of water per 1,000 sq. ft. so as to not exceed 1.0 ppm copper).

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OTHER TREATMENT FACTORS AND CONSIDERATIONS

The following suggestions apply to the use of [CUTRINE-PLUS GRANULAR [ALGAECIDE]][product name][this product] as an algaecide in all approved use sites:

- Apply [CUTRINE-PLUS GRANULAR [ALGAECIDE]][product name][this product] before growth has reached the surface and begun to form mats or canopies. If this has already occurred, application of Cutrine-Plus liquid is recommended.
- Calm and sunny conditions when water temperature is at least 60°F will usually expedite control results.
- Visible reduction in algae growth should be observed in 24 to 48 hours following application with full effects of treatments (bleaching and breaking apart of plant material) sometimes taking 7 – 10 days depending upon algae forms, weather, degree of infestation and water temperatures.
- Re-treat areas if re-growth begins to appear and seasonal control is desired.
- Apply treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. No more than ½ of the water body may be treated at one time (Refer to Environmental Hazards for additional guidance). The minimum retreatment interval between consecutive treatments is 14 days.

STORAGE & DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

{For plastic containers}

PESTICIDE STORAGE: Keep container closed when not in use. Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not reuse or refill container. Do not contaminate feed, feedstuffs, or drinking water. Do not store or transport near feed or food.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Open dumping is prohibited. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

{For plastic containers}

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning if available or puncture and dispose of in approved landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Consult Federal, State or local authorities for approved alternative procedures.

{For bagged product}

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. If not emptied in this manner, the bag may be considered an acute hazardous waste and must be disposed in accordance with local, state and federal regulations. When completely empty, offer for recycling if available, or dispose of bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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{Optional Warranty statement}

[Warranty]

To the extent consistent with applicable law neither the manufacturer nor the seller makes any warranty, expressed or implied concerning the use of this product other than indicated on the label.

To the extent consistent with applicable law buyer assumes risk of use of this material when such use is contrary to label instructions. Read and follow the label directions.]

{Optional marketing content}

[Bottom growing Filamentous Algae mat Control]

[[Brand name] and the [brand] logo are trademarks of Lonza or its affiliates.]

[[Brand name] is a trademark of Lonza or its affiliates.]

[Controls bottom-growing algae along shorelines, beaches, docks, piers and rafts]

[Clay based formulation allows granules to sink rapidly to bottom releasing the absorbed chelated copper and providing excellent control of chara and filamentous algae]

[Effectively controls the noxious submersed weed, Hydrilla verticillata, without requiring post-treatment water use restrictions associated with other herbicides.]

[Fish can be caught and consumed immediately after application.]

[For most effective results, evenly spread the required amount of **[CUTRINE-PLUS GRANULAR**

[ALGAECIDE]][product name][this product] to ensure even distribution with the type of equipment being used.]

[Has been used successfully in trout ponds which contained cold, hard water.]

[Is far less corrosive to equipment and other metal surfaces than other chelated copper compounds.]

[Is available in two formulations (liquid and granular) for controlling floating, suspended and bottom-growing types of algae.]

[Registered for use in lakes and potable water reservoirs, farm, fish and fire ponds, fish hatcheries.]

[This **[CUTRINE-PLUS GRANULAR [ALGAECIDE]]**[product name][this product] is compatible with the aquatic herbicides Weedtrine®-D, Harvester™ and Aquathol K.]

[This **[CUTRINE-PLUS GRANULAR [ALGAECIDE]]**[product name][this product] works best when with species targeted dosage or concentrations are diluted for best application coverage.]

[Treated water can be used for swimming, domestic uses and livestock watering immediately after chemical application.]

[Water from treated lakes and ponds may be used to irrigate turf, fairways and ornamental plants.]

[Will not plate-out or precipitate under normal storage conditions nor does the copper in precipitate out and become ineffective in alkaline or hard water.]

GENERAL INFORMATION

[CUTRINE-PLUS GRANULAR [ALGAECIDE]][product name][this product] is effective in controlling a broad range of benthic (bottom-growing) algae including: Chara, Nitella and filamentous forms. **[CUTRINE-PLUS GRANULAR [ALGAECIDE]]**[product name][this product] is also effective in controlling the rooted aquatic plant, *Hydrilla verticillata*. The ethanolamines in **[CUTRINE-PLUS GRANULAR [ALGAECIDE]]**[product name][this product] prevent the precipitation of copper with carbonates and bicarbonates in the water. Waters treated with **[CUTRINE-PLUS GRANULAR [ALGAECIDE]]**[product name][this product] may be used for swimming, fishing, drinking water treatment, livestock watering or irrigating turf, ornamental plants or crops following treatment.